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(11) **EP 0 717 446 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 02.06.1999 Bulletin 1999/22

(51) Int. Cl.6: H01L 27/15

(43) Date of publication A2: 19.06.1996 Bulletin 1996/25

(21) Application number: 95119100.6

(22) Date of filing: 05.12.1995

(84) Designated Contracting States: DE FR GB

(30) Priority: 14.12.1994 US 355742

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(54) TFT-EL display panel using organic electroluminiscent media

(57) A flat panel display comprising thin-film-transistor-electroluminescent (TFT-EL) pixels is described. An addressing scheme incorporating two TFTs and a storage capacitor is used to enable the EL pixels on the panel to operate at a duty factor close to 100%. This TFT-EL device eliminates the need to pattern the EL

cathode, thus greatly simplifying the procedure to delineate the EL pixels as well as ensuring high resolution. The TFT-EL panel consumes less power than conventional TFT-LCD panels, especially when the usage factor of the screen is less than unity.

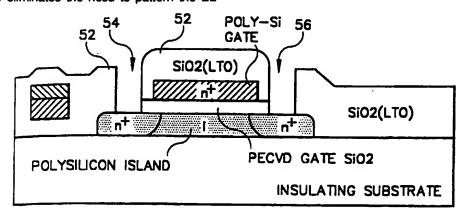


FIG. 5



EUROPEAN SEARCH REPORT

Application Number

EP 95 11 9100

Category	Citation of document with ir of relevant pass	ndication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.C1.6)	
Α	PATENT ABSTRACTS OF vol. 095, no. 002, -& JP 06 325869 A CORP), 25 November * abstract *	JAPAN 31 March 1995 (MITSUBISHI KASEI	1	H01L27/15 G09G3/32	
D,A	US 4 042 854 A (LUO 16 August 1977 * abstract; figures		1		
A	EP 0 365 445 A (EAS 25 April 1990 * abstract; figures		1		
D,A	EP 0 553 496 A (EAS 4 August 1993 * abstract; figures		1		
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)	
				H01L G09G	
	The present search report has t	peen drawn up for all claims			
	Place of search	Date of completion of the sear		Examiner	
	THE HAGUE	14 April 1999		Laere, A	
X : part Y : part doct A : tech	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anoth iment of the same category inclogical background written disclosure	E : earlier pate after the fill berner D : document c	rinciple underlying the int document, but publi ing date cited in the application cited for other reasons the same patent famili	shed on, or	

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 95 11 9100

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on

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14-04-1999

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4042854	Α	16-08-1977	DE	2652296 A	26-05-197
			FR	2332585 A	17-06-19
			GB	1563243 A	19-03-19
			JP	52064891 A	28-05-19
			NL	7612128 A	24-05-19
			US	4135959 A	23-01-19
EP 0365445	Α	25-04-1990	us	4996523 A	26-02-19
			DE	68914389 D	11-05-19
			DE	68914389 T	13-10-19
			JP	2148687 A	07-06-19
			JP	2729089 B	18-03-19
EP 0553496	Α	04-08-1993	US	5276380 A	04-01-19
	-		CA	2085298 A	01-07-19
			DE	69217475 D	27-03-19
			DE	69217475 T	28-08-19
			JP	5275172 A	22-10-19

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